

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 26870

Title: Recent advances in mass spectrometry-based proteomics of gastric cancer

Reviewer's code: 03572722

Reviewer's country: Romania

Science editor: Jing Yu

Date sent for review: 2016-05-01 17:49

Date reviewed: 2016-05-11 19:14

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Article entitled "Recent Advances in Proteomics of Gastric Cancer" is an interesting article with focus on remarkable advances in mass spectrometry-based proteomics, presenting new perspectives on quantitative proteomics and its future applications in the clinic and translational gastric cancer research. I recommend the following improvements: - Abstract. It is not really a summary of the article, and do not include key findings of these hot topic. I suggest rephrasing the abstract by highlighting the novelty, advances and importance of proteomic research in the field of gastric cancer. For example, it was mentioned "characterization of thousands of proteins in gastric cancer cells", but proteomics can characterize proteins not only from cells, but also from serum etc. - Introduction Rephrase the introduction to be more effective, clear and well organized. The first paragraph with genomics tools is too large for a proteomic review; one phrase with genomics should be enough. There is a large part in Introduction in which is not mentioned references "With almost one million cases diagnosed each year, gastric cancer is also one of the most common cancers particularly in East Asia. Despite a modest decline in newly diagnosed cases worldwide, mortality rate of gastric cancer remains higher than that of other malignancies, mainly due to the lack of noninvasive early gastric



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cancer diagnostics. Moreover, the pathogenic mechanism underlying gastric tumorigenesis is still unknown and the only curative treatment for gastric cancer remains to be surgery." Table 1 should be placed in the body of article, not in introduction (where is not so appropriate). -Body article - too many details regarding description of technologies and less information regarding gastric cancer - it is mentioned "Singhal et al.[13]" and in references list it is "13. Cai XZ, Huang WY, Qiao Y, Du SY, Chen Y, Chen D, et al." - could be mentioned other platforms, like SELDI-TOF - Overall, it is recommendable to rephrase some sentences using a more academic language. In this regard, we recommend that a professional editor revise the English in order to ensure the manuscript meets the Journal's standards. In addition, a thorough review of the punctuation is strongly advised (especially the use of comma).

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 26870

Title: Recent advances in mass spectrometry-based proteomics of gastric cancer

Reviewer's code: 03508701

Reviewer's country: China

Science editor: Jing Yu

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input checked="" type="checkbox"/> Major revision
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		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

This manuscript focuses on the recent advances in proteomics of gastric cancer, mainly discussing the basics knowledge about mass spectrometry, method of quantitation and types of measurands. The article is well-structured, however, some improvements might be needed. First, it would be better to summarize the role of proteomic analysis in the study of gastric cancer in the INTRODUCTION, such as identifying novel biomarker or elucidating molecular mechanism. Additionally, it might be not appropriate to place TABLE 1 in INTRODUCTION. Second, TABLE 1 and TABLE 2 could be merged into one as it would be more concise and informative. And providing more information about whether the differently expressed proteins identified from the proteomic analysis are validated by IHC or WB in the following step in each study would be helpful. Third, I am not sure if the authors have performed comprehensive literature retrieval as there are some publications which are not included in this article (Song, D., et al. (2016). "Diagnostic and prognostic role of serum protein peak at 6449 m/z in gastric adenocarcinoma based on mass spectrometry." Br J Cancer 114(8): 929-938.). I guess this manuscript were submitted before the publication time of the above article? Fourth, it would be better to proofread the article by native English speakers.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 26870

Title: Recent advances in mass spectrometry-based proteomics of gastric cancer

Reviewer's code: 00679634

Reviewer's country: Singapore

Science editor: Jing Yu

Date sent for review: 2016-05-01 17:49

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

World Journal of Gastroenterology Manuscript ID: 00865363 Manuscript title: Recent Advances in Proteomics of Gastric Cancer Authors: Changwon Kang, Yejin Lee, J. Eugene Lee General comments The authors aim to review the current state of gastric cancer proteomics, with some emphasis on biomarker discovery. The manuscript begins with a helpful summary of current protein mass spectrometry methods. However, the rest of the manuscript consists of an uncritical summary of selected individual studies. A good review should provide expert insights in the topic and should not be limited to a list of summary statements from published work. This review lacks critical and analytical perspectives of the studies cited. The authors also do not address several points which are pertinent to the future development and utility of protein mass spectrometry. For example, the review should address the importance of sampling handling and pre-analytical processing, the relatively low throughput of protein mass spectrometry compared to genomic methods, reproducibility of putative biomarkers and the barriers to clinical adoption of protein mass spectrometry in precision medicine. Studies summarized in Tables 1 and 2 are very incomplete. Numerous studies have not been included (e.g. PMID 21165559; PMID15649254; PMID 22204653;

PMID 17022644; PMID 17154271; PMID 22015459; PMID 22533479; and other studies). The gastric cancer proteomics literature should be summarized according to the different types of biological samples i.e. separate tables for (a) gastric cancer cell lines; (b) gastric cancer tissues; (c) gastric cancer secretomes; (d) serum biomarkers; (e) biomarkers in gastric juice/gastric fluid; (f) gastric cancer interactomes; (g) patient-derived gastric cancer xenotumors. Specific comments 1. The manuscript would benefit from text editing by a native writer. Several expressions and words are unclear to readers of standard English. A few examples follow: Page 3: "A couple of mass analyzers are used in current proteomics." Page 3: "... 29 proteins were in different cellular levels." Page 6: "... can attribute to the protein." Page 6: TYPES OF MEASURANDS Page 7: "... cancer tissues differs from that from normal tissues." Page 8: Misspelling - "triple-quadruple" Page 8: "... than conventional discovery base mass spectrometry". 2. Page 4: Singhal et al. is wrongly cited (not reference 13). Singhal et al. did not analyze biopsy samples.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 26870

Title: Recent advances in mass spectrometry-based proteomics of gastric cancer

Reviewer's code: 03017234

Reviewer's country: China

Science editor: Jing Yu

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Date reviewed: 2016-06-01 10:08

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
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		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

This manuscripts focus on mass spectrometry, mainly summarizes its thechnical advances and application in gastric cancer,provides a brief oveview of mass spectrometry for readers. While,there are still some weaknesses and suggestions . 1) Since it is entitled "Recent Advances in Proteomics of Gastric Cancer", there are still other methods in proteomics, such as protein chips, this manuscript only focus on mass spectrometry, the title is inappropriate. 2) If the disadvtages or limitations of mass spectormetry is mentioned, and comparison to other methods is did,the manuscripts will be more comprehensive.